## <u>CLAIMS</u>

## WHAT IS CLAIMED IS:

1	1. An image capture system comprising:
2	an image input for obtaining image information; and
3 .	a processing unit coupled to the image input for determining an image
4	metric on the image information, the processing unit for initiating a
5	capture sequence when the image metric meets a predetermined
6.	condition.
1	2. The image capture system of claim 1, wherein the image metric includes
2	photometric data, and wherein the predetermined condition is met when the
3	photometric data reaches a predetermined threshold.
1	3. The image capture system of claim 1, wherein the image metric includes
2	light intensity information, and wherein the predetermined condition is met when th
3	light intensity information reaches a predetermined threshold.
1	4. The image capture system of claim 1, wherein the image metric includes
2	light intensity information, and wherein the predetermined condition is related to a
3	rate of change of the light intensity information.

1	5. The image capture system of claim 1, wherein the image metric includes
2	colorimetric data, and wherein the predetermined condition is met when the
3	colorimetric data reaches a predetermined threshold.
1	6. The image capture system of claim 1, wherein the image metric includes
2	colorimetric data, and wherein the predetermined condition is related to a rate of
3	transition of the colorimetric data.
1	7. The image capture system of claim 1 further comprising:
2	a port for receiving parameters specifying the predetermined condition.
1	8. The image capture system of claim 1 further comprising:
2	an interface for allowing input of the predetermined condition.
1	9. The image capture system of claim 1, wherein the image input is an image
2	sensor.
1	10. The image capture system of claim 1 further comprising:
2	a storage unit for storing the image information during the capture
3	sequence.
1	11. A method of selecting an image, the method comprising the steps of:

2	(a) specifying an image profile;
3	(b) generating a histogram from an input image;
4	(c) determining whether the histogram of the input image matches the
5	image profile;
6	(d) if the histogram of the step (c) does not match the image profile, then
7	repeating steps (b) and (c) for subsequent input images until the
8	histogram of one of the subsequent input images matches the image
9	profile.
1	12. The method of claim 11 further comprising the steps of:
2	(e) responsive to a match between one of the input images and the image
3	profile, saving to a storage medium the image corresponding to the
4	histogram that matches the image profile.
1	13. The method of claim 12 further comprising the steps of:
2	(f) saving to the storage medium one or more images captured
3	chronologically preceding the image saved in the step (e).
1	14. The method of claim 11 wherein the input image of the step (b) is
2	provided by an image sensor in an image capture device.

1	13. The method of claim 11, wherein the steps (a)-(d) are performed
2	responsive to a search for a target image having the image profile, the method
3	further comprising the steps of:
4	(e) indicating that the target image has been found.
1	16. The method of claim 11 wherein the input image of the step (b) is
2	provided from an input from a video stream.
1	17. A method of detecting that an image meets a predetermined image profile
2	the method comprising the steps of:
3	(a) sampling a first image;
4	(b) determining an image metric for the first image;
5	(c) comparing the image metric for the first image with the
6	predetermined image profile; and
7	(d) storing the first image when the image metric for the first image
8	matches the predetermined image profile.
1	18. The method of claim 17 wherein the image metric comprises a luminosity
2	component, and the predetermined image profile is matched when the luminosity
3	component reaches a predetermined threshold.

1	19. The method of claim 17 wherein the image metric comprises a color
2	component, and the predetermined image profile is matched when the color
3	component reaches a predetermined threshold.
1	20. The method of claim 17 wherein the predetermined image profile is
2	generated by the steps of:
3	(i) creating a mock up image;
4	(ii) determining an image metric associated with the mock up image;
5	(iii) selecting one or more threshold values; and
6	(iv) forming the predetermined image profile from the selected threshold
7 .	values.
1	21. A method of detecting an image comprising the steps of:
2	(a) sampling two images at different points in time;
3	(b) determining an image metric for the two images;
4	(c) measuring a rate of change of the image metric;
5	(d) indicating that there is a match with an image profile if the rate of
6	change of the image metric matches a first predetermined condition.
1	22. The method of claim 21 further comprising the step of:
2	(e) sampling a subsequent image;
3	(f) determining a second image metric for the subsequent image;

4	(g) measuring a rate of change of the second image metric;
5	(h) indicating that there is a match with the image profile if the rate of
6	change of the second image metric matches a second predetermined
7	condition.
1 .	23. The method of claim 21 wherein the step (d) of indicating that there is a
2	match with an image profile is accomplished by triggering an image capture
3	sequence.
1	24. An image capture system comprising:
2	a sensor for capturing image data;
3	a histogram unit for generating an image metric from the image data
4	captured by the sensor; and
5	a memory unit for storing the image data when the image metric meets a
6	predetermined condition.
1	25. The image capture system of claim 24 further comprising:
2	a timing device coupled to the histogram unit for determining a rate of
3	change of the image metric.
1	26. A method of creating an image profile for selecting an image, the method
2	comprising the steps of:

3	(a) determining image metrics from two images;
4	(b) identifying one or more of the image metrics that differ between the
5	two images by at least a predetermined amount; and
6	(c) determining one or more thresholds based on the one or more image
7	metrics identified in the step (b).